# GOVERNMENT OF INDIA METEOROLOGICAL DEPARTMENT

## INDIA WEATHER REVIEW, 1949

ANNUAL SUMMARY	990
PART B	.I39 I52.
SNOWFALL	pt. B 1949

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## INDIA WEATHER REVIEW, 1949

#### ANNUAL SUMMARY.

### PART B. SNOWFALL.

This part contains a summary of the reports of snowfall in the mountain regions to the north of India. These reports are collected by local officers from the local residents, headmen of villages or from travellers who have passed through the region and are then transmitted to this office.

The amount of snowfall is usually measured by finding the depth of undisturbed snow lying on the ground. The measurements are given in feet and inches. At places provided with raingauges the snow collected in the gauge is melted and measured as rain. This is indicated in the text and the measurements are given in inches and cents.

Winter Period, January and February

#### I.-KASHMIR

Skardu and Dras-No reports were received.

Srinagar.—There were eight light moderate falls of snow in January and nine in February on the surrounding mountain range of Pir Panjal and in the valley. The depth of each fall on the Pir Panjal varied from a few inches to three feet in January and one to three feet in February. The total precipitation recorded at the central observatory amounted to 2"·29 in January and 5"·29 in February. The heaviest fall (0·40") in January was recorded on the 25th. In February, the heaviest fall (2"·43) in 24 hours occurred on the 4th. The accumulations on the Pir Panjal range at the end of January and February were six to eight feet and eight to ten feet respectively. The falls were reported to be below normal in January and about normal in February.

#### Kargil.—No report was received.

Sonamarg.—Snow fell on fourteen days in January and on eight days in February. The depth of the falls varied from one inch to ten inches in January and one inch to seventeen inches in February. The accumulations at the end of January and February were about 5 feet and 11 feet respectively on the ground and 10 feet and 16 feet on the well-known passes of Zojilla and Nichnay. The falls were about the average in January and above the average in February.

Leh.—At the station proper, snow fell on two days in January on the 9th and 16th. On the surrounding hills, except for the periods 9th to 14th and 18th to 25th, there was intermittent snowfall through the month. The snowline at the end of the month was at 14,000 feet. Accumulation was ten feet at a height of about 17,000 feet. The snowfall at the station proper is reported to be less than normal. BM17DGOB

#### II.—THE EAST PUNJAB

Chamba.—Dalhousie Range (Kalatope)—Snow fell on six days in January to a total depth of 6' 5½". The depth of the individual falls varied from ½" to 3' 2". In February, there were 8 snowstorms, the falls amounting to a total depth of about 9 feet. The accumulations of snow at Kalatope were nine inches at the end of January. In the cooler aspects the accumulations were 3½ feet at the end of January and ½ foot at the end of February.

Kangra. -- No report was received.

Kilba (Simla District).—In January, there were light snowfalls at the higher elevations. The passes were blocked. The first week of February witnessed heavy snowfall from the 2nd to 5th and according to reports such continuous and heavy snowfall had not occurred during the previous 6 years. Falls of snow occurred frequently during the first fortnight. The total falls during the month at Kilba, Sangla and Purbani were 2' 7", 5' 6" and 5' 2½" respectively. The snowline descended to 5,400 feet (a.s.l.) All the passes were blocked. The fall in January were below normal while in February they were above normal.

#### III.—United Provinces

Garheal.—Snow fell on nine days in January and on six days in February. The depth of snow on higher elevations varied from ½' to 10' in January and ½' to 20' in February. The falls were above the average during the period.

Almora.—The following table gives the estimated amounts of the falls and accumulation of snow during the two months—

•	L	ocality		ļ	January	February
				l	Feet	Feet
	F	alls		1		
Maila Danpur	••	• •	••		5	7
Malla Johar	••	••	••		i i	
Malla Darma		••	• •	]	1	41
Byans	••		••		3 to 44	51 to 81
	Accum	ulations				ĺ
Kotela Hill	••	••	••	}	21 to 3	12 to 15
Kotela Valley	• •				10 to 15	85 to 100

	Lo	cality	•	•	January	February
	Accus	nulations			Feet	Feet
Kafini Hill	••	••	••		16 to 20	25 to 30
Kafini Valle <b>y</b>	••	••	••		20 to 25	100 to 150
Bankatiya Peak	••	••	••		15 to 20	39 to 40
Bankatiya Valley	• •	••	••		20 to 25	•••
Pindar Valley		••	••		50 to 60	150 to 200
Pindar Peak		••	••		<b>2</b> 00 to 250	200 to 300
Nandakote	• • •	••	••		35 to 45	50 to 60
Sunderdhunga Val	lé <del>y</del>	••	••		30 to 40	120 to 20
Sunderdhunga Pea	k	••	••	••	20 to 25	100 to 120
Hosling		••	••	••	1	
Khaliya	••	••	••		1	
Nubedhura	<i>i</i> .	••	••		1	30
Lampiya	••	• •	••		44	81
Lipu		• •	٠	••′	3	5

The falls during the period were below normal but the accumulation of snow at the end of the period was slightly above the average.

Multisar. - No report was received for January. Snow fell on two days in the first week of February. The total amount of snow when melted and measured as water amounted to 1.40". The falls were above the average.

#### IV.—Assam

Sadiya Frontier Tract. - Snowfall of moderate intensity occurred on one day each in January and February. The depth of the falls varied from \ to 2". The peaks opposite to Theroliang Camp were covered with snow, the snowline descending to 4,500 feet a. s. l. The snowfall was reported to be above the average.

Baliapara Frontier Tract.—Snowfall was comparatively heavier. The heaviest fall occurred during the first week of February. The depth of snow on the Se-La, Qrkala and Punsum-La was 3' to 4'. The pass across the Orka-La 6,000 to 7,000 feet) of the Dirang village were also covered were 6 to 10 feet. These were about the average. with snow for a few days.

Hot Weather Period-March to May

#### I.-KASHMIR

Skardu and Dras.—No reports were received.

of Pir Panjal. The falls were confined to a height of about normal.

7,500 feet a.s.l. The depth of these falls varied from three to five inches. Only one light fall was observed in the valley, which, when melted and measured, amounted to 0.20". Light to moderate falls of snow were observed on 4 days in April and on seven days in May. The depth of the falls varied from one to six inches in April; in May it did not exceed five inches. The falls were normal in March and April and above normal in May. The snow accumulations on the Pir Panjal range were about 8 to 10 feet at the end of March and April. These were normal. The accumulations at the end of May were reported to be above normal.

Kargil.-No report was received.

Sonamarg.—Snow fell on 14 days in March and on 3 days in April, amounting to total depths of nearly 8 feet and seven inches respectively. On the passes of Zojilla and Nichnay the snowfalls were reported as 10 feet 6 inches and 1 foot 2 inches. The accumulations at the station proper were 111 feet and 3 feet at the end of each of the two months while those on the Zojilla and Nichnay passes were reported to be about 12 feet and 6 feet respectively. The falls were above normal in March and below normal in April. The accumulations were above normal. No snow fell in May. The accumulations at the end of May on Zojilla and Nichnay passes were about 2 feet and these were normal.

Gurez.-The snowfall in the month of May at Raz-dani pass (Height 11,936 feet) was 10 inches.

Leh.-Snow fell on nine days in March, three days in April and four days in May at the station proper to total depths of  $2\frac{1}{2}$ ,  $1\frac{1}{2}$  and  $\frac{3}{4}$  respectively. The snowline at the end of each of the months was at 15,500 feet, 16,000 feet and 16,500 feet a.s.l. respectively. The accumulations on higher elevations were about 10 feet at the end of March and April and about 5 feet at the end of May. The falls were about normal in March and above normal in April and May.

#### II.—THE EAST PUNJAB

Chamba. - Dalhousie Range (Kalatope). - Snow fell on 4 days in March to a total depth of 2 feet 8 inches. The snow accumulations at the end of the month were about 1 foot in the cooler portions. Portions exposed to the sun were

One light snowfall occurred in May over the high peaks access to Bhutan was closed from the 1st week of February and passes above 9,000 feet a.s.l. The accumulations of to the 15th March. The surrounding lower hills (height snow on the well-known passes and peaks at the end of May

Kangra and Kilba.—No report was received.

#### III. United Provinces

Garhwal.—There were seven falls of snow in March and two each in April and May. The depth of snow on higher Srinagar. -- During March, six light to moderate falls elevations was 1", ½' and ½' to 3' respectively. The accumuof snow were observed on the surrounding mountain range lations of snow at the end of May were reported to be above

Almora.—The following table gives the amount of falls!

	Locali	ty		March	April	May
	Falls			Feet	Feet	Feet
Malla Danpur	••		••	. 2	1	. 1
Malla Darma	••	, <b>.</b>	••	12	11	1
Malla Johar	••			••	5	2
Bynns	••		• •	41 to 71	72	5} to 9}
Chaudans	••		••	••	3	••
Ac	cumülati	0 <b>71.5</b>				-
Kotela Hill	••	٠, •		2 to 3	21	1
Kotela Valley	••	••	••	10 to 15	6 to 10	5 to 7
Kafini Hill	••	••	• •	6 to 10	10	8 to 10
Kafini Valley	••	••	••	30 to 50	20	15 to 20
Bankatiya Peak	• •	••	•• ;	15 to 20	10 to 15	8 to 10
Pinder Valley	• •	••	••	50 to 60	30 to 40	40 to 50
Pinder Peak	••,		••	100 to 150	200 to 250	100 to 150
Nandakote	••	••	, ••	25 to 30	25 to 30	15 to 20
Sunderdhunga V	alle <b>y</b>	••	•••	30 to 40	20 to 25	20 to 40
Sunderdhunga P	eak	••	••	20 to 30	15 to 20	15 to 20
Mashoor Ghati (1	Nubedhi	ıra)	••	25	25	••
Panchuli	••		••	35	🤋	••
Hosling	••		• .	191	••	••
Lampiya	••	••	••	71		14
Lipu	••			41		9

The falls as well as the accumulations were generally about the average during the period.

> Monsoon Period—June to September June and July I.-Kashmir

Skardu.—No reports were received.

Dras.-The report received is for a short period viz., 24th July to 31st July. During this period no snow fell either in the adjoining areas or the mountain ranges or passes.

Srinagar.—Three light falls of snow were observed on the surrounding mountain range Pir Panjal in June. The depth of the falls varied from two to four inches. In July, no showfall was experienced. The falls were above normal in June. The accumulations on the Pir Panjal mountain range were reported to be above normal at the end of June and below normal at the end of the period.

Gulmarg.—There was no snowfall during the period. At the end of July the snow of the preceding winter was visible on the peaks and gorges of the Affarwat and Handibal mountains to a depth of about 11".

Kargil.—No reports were received.

Sonemarg.—There was no snowfall during the period. during and the accumulations at the end of each of the months. The accumulations on the well known peaks and passes of Zojilla and Nichnay were about 1 ft. at the end of July.

> Gurez.—The report received gives only the information of snow accumulations up to 26th July as given below: -

> > Patal Wan-12 inches.

Vigi Galli-Nil.

Pilel Top-12 inches.

Burzal Top—11 feet.

Leh.-A light snowfall was observed on one day in June at elevation (14,000 feet a.s.l.). The accumulations at the end of June were reported to be about 6" to 1 feet. at 17,500 feet height.

Banihal.—No snowfall was observed at the station or its environments during the period.

#### II.—THE EAST PUNJAB

Chamba.—Some light falls of snow occurred on high hills above 12,000 feet. The accumulations of snow on the well-known peaks and passes were reported to be normal.

Kangra.-In Kulu sub-division, towards the end of July snowfall occurred on the peaks of Hampta and Rohtang to a total depth of 1 feet and 3 feet respectively.

Kilba.—No report was received.

#### III.—United Provinces

Garhwal.—In June, snow fell on two occasions to a depth of 1 inch to 6 inches on the higher elevations. July there was no snowfall. The falls were about the average.

Almora.—The following table gives the aggregate falls during and the accumulations at the end of June and July on the well-known passes and peaks. Both the falls and accumulations were below normal.

	Locality					
		<u> </u>			Feet	Foet
	•	Falls				
Malla Danpur	••	••	••	••	1	1
Malla Darma	••	••	••	••	ŧ	1
Malla Johar	••	••	••	••	1	1
Byans	••	••	••.	••	4 to 7½	10 to 15
	Accun	nulations				ļ.
Kotela Hills	••	••	••	••	••	••.
Kotela Valley	••	••	••	••	5 to 10	1 to 2
Kafini Hill	••	••	••	••	10 to 12	5 to 10
Kafini Valley	••	••	••	••	15 to 20	10 to 15
Bankatiya Peak	••	••	••	••	5 to 10	10 to 15
Pinder Valley	••	••	••	••	<b>30</b> to 50	15 to 30
Pinder Peak		••	••	••	100 to 150	10v to 150

	Lo	cality			June	July
	Acc	umulatio	ns		Feet	Feet
Nandakhat	••	••	••	<i>.</i> .	15 to 20	10 to 15
Sunderdhunga V	<sup>7</sup> alle <b>y</b>	••	• •		20 to 30	15 to 20
Sunderdhunga I	oak.	••	••		10 to 15	10 to 15
Nubedhura	••	••	••	• •	21	21
Lampiya	• •	••	••		1 <del>4]</del>	20
Lipu	••	••			71	14

#### August-September

#### I.-KASHMIR

Skardu.-No reports were received.

Dras.—In August, there was no snowfall at the station proper but there were three moderate falls of snow confined generally to the mountain peaks of Kawabal, Wazulbal and within the Chhuskim Nalla. The depth of each fall did not exceed 4 inches. In September three light snowfalls extending to the bottom of the surrounding hills and mountain ranges occurred. The depth of the first two falls did not exceed three inches while that of the third fall was between 9 and 13 inches on higher peaks, dwindling down to 4 to 6 inches at the bottom of surrounding hills. The accumulations at the end of September on the Zojilla, the Moili mountain, the Dumcharoo, the Drakshee and the Gumchai were reported to be about 6 to 8 inches. The falls were normal in August and above normal in September.

Srinagar.—There was no snowfall on the surrounding mountain range of Pir Panjal in August. Three light to moderate falls of snow with depth varying from one to three inches occurred on this range in September. Accumulation on the Pir Panjal range at the end of August was below normal and at the end of September about two to three feet. Snowfall was reported to be below normal in August and normal in September.

Gulmarg.—No fresh fall of snow was observed in the valley or the surrounding mountain ranges during August. In September, snow was observed on the 12th on the Affarwat and Handibal mountain ranges. The depth of the fall varied from one to two inches which melted away. Accumulation on the peaks and gorges of the Affarwat and Handibal mountains was about 1½ inches at the end of September. Snowfall was below normal in August and nearly normal in September.

Kargil.—No reports were received.

Sonamarg.-There was no snowfall during the period. Accumulation at the end of September was about 6 inches on the passes of Zojilla and Nichnay.

the hills on the 25th, August is reported to be abnormally November witnessed eight vigorous falls. The accumulations

heavy. The snowline was at 20,000 feet a.s.l. at the end of August and at 18,000 feet a.s.l. at the end of September.

The falls were reported to be above normal in August and normal in September.

#### II.—THE EAST PUNJAB

Chamba. - There was no snowfall during the period. Kangra and Kilba Hills.-No reports were received.

#### III.—United Provinces

Garhwal.—There was no snowfall in August. In September there were 7 days of snowfall on the higher elevations to depths of two to twelve inches. These amounts were also reported as accumulations at the end of the period.

Almora.—The falls and accumulations of snow in various localities during the two months are given below. The falls were nearly normal and the accumulations above the average.

	L	ocality			August	Septem- ber
<u></u>	<del></del>	· <u></u>			Feet	Feet
<b></b> .	٠ .	Falls			1/0	14
Malla Danpur		••	••	**	1/3	14
Malla Darma	••	••	• •		1 1/3	2
Malla Joha <del>r</del>	• •	••	••	••	13	#
Byans	••		••		91 to 141	81 to 12
•	Accum	dations				
Kotela Hill	••	••	••	٠.	**	1
Kotela Valley		••		·. ·	4	1
Kafini Hill	••	••	••		5 to 10	1 to 1
Kafini Valley			••		15 to 20	12 to 20
Bankatiya	•	••	••		5 to 10	10 to 15
Pinder Valley		• •	• •	• •	20 to 30	10 to 25
Pinder Peak			••		50 to 80	115 to 125
Nandakhat			••		10 to 20	20 to 25
Sunderdhunga V	alley	••	• •		15 to 25	15 to 20
Sunderdhunga P	ea <b>k</b>			• •	10 to 15	20 to 39
Lipu	••	• •			13 to 21	16 to 19

Post Monsoon Period

October to December

I.-Kashmir

Skardu.-No reports were received.

Dras.—Snow fell at Dras and on the surrounding moun-Leh.—Snow fell on 3-4 days in each of the two months tains during all the three months. There were three light at elevations over 15,000 feet a.s.l. The snowfall of 4" on moderate falls in October and about twelve in December.

on the mountains were as given below:-

,	Locality			October	November	December
Station proper	(Dras)		••	1 feet	••	9 inches
Mountains	••	••		5 to 7 ft.	2 to 3½ ft.	1 to 21st.

The falls were reported to be above normal in October and November and nearly normal in December.

Srinagar.—Light falls of snow 1 inch to six inches in depth occurred on the surrounding mountain range of Pir Panjal, between the 27th and 29th of October. November also witnessed three light snowfalls not exceeding one inch in depth on the Pir Panjal. In December, four light to moderate falls of snow were observed on the surrounding mountain range of Pir Panjal as well as in the valley. The depth of falls on the Pir Panjal was reported to be two to four feet and that in the valley between 1 and 1. The falls in October and November were reported to be normal and in December below normal. The accumulation at the end of each of the months was nearly normal.

Gulmarg.-No report has been received.

Kargil.—No report has been received for October. In November two light falls of snow occurred at the station proper and on the surrounding mountain ranges and passes. The depth of the falls was 7 inches to 10 inches on the mountains and 1 to 2 inches at the station proper. In December ten moderate falls of snow occurred at the station proper and on the surrounding mountain ranges with depths varying between 1" and  $2\frac{1}{2}$ " and 1 foot and  $2\frac{1}{2}$  feet respectively. The falls were reported to be below normal. The accumulation of snow on the mountains was 1 foot to 2½ feet at the end of the period and was nearly normal.

Sonamarg.—Snow fell on three days in October to a total depth of two feet at the station proper and about 6 feet on the well-known peaks and passes of Zojilla and Nichnay. In November snow fell on 4 days, the total depth of the falls being 2' 6" at the station and 5 feet on the Zojilla and Nichnay passes. There were eight days of snowfall in December and the total depths of these were 13" at the station and 13 feet on the Zojilla and Nichnay. The snowfall was reported to be above the average in October and below the average in November and December. The accumulation at the end of each of the months is given below:

Localit	У		October	November	December
Sonamarg	••	••	•••	2′ 4″	18″
Zojilla and Nichnay	••	•••	4 to 5 ft.	4} ft.	2 ft.

Gurez .- Two or three falls of snow occurred in each of the months October and November to depths of 8 inches and 3 to 4 inches respectively at station proper. On the October and four in November to depths of 18" and 36" elevations. The depth of the snow varied from 6" to 20

of snow at the end of each month at the station proper and respectively in each of the months. December experienced a few falls of snow two to three inches in depth at the station and several falls on the surrounding mountains and also in the valley descending up to the hills of Razdani, Vaggagalli, Tillel, Halakhaton and Patalwan. The accumulations at the end of the months are given below:-

	Localit	y	October	November	December	
Mountains	• •	••	••	11 ft.	3 ft.	3 to 4 ft.
Valley	••	••		2 in.	3 to 4 in.	2 to 3 in .

The falls were reported to be above normal in October and below normal in November and December.

Leh.—There was practically no snowfall in October. Snow fell at the station proper on 6 days in November and on 12 days in December to total depths of about four inches in each of the months. The accumulations at the end of the period were about five inches at station and a few feet on passes at 17,500 feet a.s.l. The falls were reported to be about normal in October and above normal in the rest of the period.

Banihal.—Nor report was received for October and November. In December 8 light moderate falls, a few inches to three feet in depth were experienced. The accumulations at the end of December on Budlu, Sunduree and Pir Panjal tops were reported to be two to six feet.

#### II.-THE EAST PUNJAB

Chamba.—Dalhousie Range (Kalatope)—No report was received for October and November. During December, snow fell on five days to a total depth of 1 foot 11 inches. Snowline descended to about 6,500 feet during this month. The falls and the accumulations were below the average.

Kulu (Kangra District).—There was no snowfall in October and November. In December snowfall was confined to heights above 7,000 feet between Kulu and Lahaul and the accumulations at the end of the month on the passes were as given below:-

	Pas	8	Height	Accumu- lations		
					Feet	Feet
Hampta	••	••	••		14,000	5
Rohtang	••	••	••	••	13,000	4
Chavdarkhani	••		••		12,000	24

The accumulations were about the average.

Kilba (Simla District).—No reports were received.

#### III.—United Provinces

Garhwal.—There were four falls of snow during October' surrounding mountains there were three falls of snow in a few in November and five during December on higher in October and  $\frac{1}{4}$  to 2 feet in November. In December it was 1 foot. These were also reported to be the amount of accumulations at the end of the respective months.

Almora.—No report has been received for October and November. The following table gives the falls during and accumulations at the end of December. Both the falls and accumulations were above normal.

Locality						December
		Fall s				Feet
Malla Danpur	-	•••	••	••	••	4 10 5
Malla Darma	-		••	••	••	2
Byans	• •	•••	••	••	••	5½ to 9½
Chaudans	***	• •	• ••	••	••	15
		Accumula	tio <b>n</b>			
Masoor Peak	••	••	••	••	••	· 25
Kotela Hill	-	•	••	••	••	4 to 5
Kotela Valley		••		••	••	10 to 12
Kafini Hill		••	••	••	••	50 to 75
Kafini Valley	-	•••	••	••	••	130 to 150
Pinder Valley	•		•	**	••	250 to 270
Pinder Peak	-	-	-	-	••	200 to 250
Nandakhat	-	-	••	••	••	100 to 150
Sunder Dhunga Valley	• •			••	••	150 to 170
Sunder Dhunga Peak	••	••	••	••	••	100 to 150
Lampi <del>ya</del>	• •	5.0	••	••	••	17
Mansooria		••	••	••	••	23

#### IV.—Assam

Sadiya Frontier Tract.—No report was received for October. During the rest of the period no snowfall was noticed upto Theorliang or its adjacent peaks.

Abor Hills.—The report received is for November and December. The falls were confined to the peaks in the Padam country and the range standing as the boundary of the Mishmi and Abor Hills above Sisseri head. The falls were about normal.

Baliapara Frontier Truct.—No report has been received for October. During the period, snowfall was less than in previous years and only about a foot of snow was found on the peaks of the Se La, Orka La, Punsum La and other higher ranges. Manda La, Bompu La and Bomdi La had light falls of snow about a few inches in depth during the last part of December. The falls were much below the average.

#### Summary

Winter Period, January and February.—Snowfall during the period was about normal in Kashmir and the East Punjab and above normal in the United Provinces and Assam. The accumulations at the end of the period were slightly above the average in the United Provinces.

Hot Weather Period, March to May.—Snowfall was generally about the average. The accumulations were about normal in the East Punjab and slightly above normal in Kashmir and the United Provinces.

Monsoon Period, June and July.—Snowfall was generally normal. The accumulations were normal in the East Punjab and below normal in Kashmir and the United Provinces.

Monsoon Period, August and September.—Snowfall during this period was, as usual, confined to higher elevations. The falls in Kashmir and the United Provinces were nearly normal. The accumulations were reported to be above normal in the United Provinces.

Post Monsoon Period, October to December.—Snow-fall was above normal in the United Provinces, slightly below normal in Kashmir and the East Punjab and below normal in Assam. The accumulations were above normal in the United Provinces, normal in Kashmir and slightly below normal in the East Punjab.

N. B.—It is not possible to adopt a single classification of season which will be satisfactory for the whole of India. The classification adopted in this publication is, however, considered as the most satisfactory one and the least open to objection especially from the point of views of rainfail.